

Our Saviors Lutheran Church
1035 Carol Lane Lafayette

DX Interest Group Meeting
With Dave Piersall, N6ORB 6:30pm
*** License Testing 6pm ***

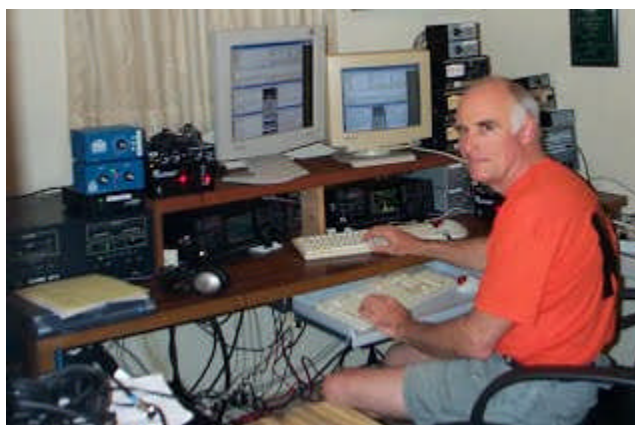
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JUNE PROGRAM

FT8 Fundamentals and History

By Ed Muns, W0YK



The talk will start with some Longbook of the World (LoTW) and ClubLog statistics on submissions by mode (CW, SSB, RTTY, JT and FT4/8), then put FT4/8 in context with amateur digital

history. The bulk of the presentation will discuss various aspects of the FT4/8 modes.

W0YK entered CW and SSB DX contests initially in the early 1970s as a way to work new band/mode-countries for DXCC. Today, CW and RTTY contesting dominate Ed's operating time as a member of the Northern California Contest Club. He was inducted into the CQ Contest Hall of Fame in 2014.

Please join us on Friday June 21, 2019 at 7:30pm.



Chris Accinelli, K2CRA
Curtis Ardourel, WA6UDS
John Fico, KF9JK
Chester Jaffe, KM6AVE
Wayne R. McKinney, KN6CDN

If you hear any of these new members on the air, please welcome them to our club.

— *Tom Deeble, KA6SIP*



When you purchase at Amazon dot com smile, a portion of your purchase is donated to our club.

Go to:
<https://smile.amazon.com/ch/23-7072059>

ALL MEMBERS ARE INVITED TO JOIN THE CLUB E-MAIL GROUP.
DOWNLOAD FILES, INCLUDING *THE CARRIER* IN **FULL COLOR** AS WELL AS SHARE INFORMATION WITH THE MEMBERSHIP AT:

<https://groups.io/g/MDARC>

(the Yahoo group will be abolished)

Mount Diablo Amateur Radio Club W6CX
P.O. Box 23222 Pleasant Hill, CA 94523
(925) 288-1730

The Carrier is a monthly publication of the Mount Diablo Amateur Radio Club (MDARC). It is the policy of the editor to publish all material submitted by the membership provided such material is in good taste, relevant to amateur radio and of interest to MDARC members, and provided space is available.

President - Larry Bradley, KK6QPE
Vice President - Ed Morales, KJ6KYT
Secretary - Larry Loomer, KI6LNB
Treasurer - Cathi Walton, K2CJW
Emergency Coordinator - Ron Bunch, W4FEK

Directors At Large
Trevor Hall, WA6JAU Dave Piersall, N6ORB
John Primus, AF6RJ Mike Warren, W6MEW

Membership Chair - Tom Deeble, KA6SIP
mdarcmembership@mdarc.org

PACIFICON 2019
Co-Chairs: Misa Siemons, KJ6BUE,
Vicki Zumwalt, N6KLS, Julie Mah, WJ8MAE
Registration: Debbie Deeble
Treasurer: Jim Siemons, W6LK
Secretary: Cathi Walton, K2CJW

COMMITTEE CHAIRS AND COORDINATORS

Annual Auction - Jim Siemons, W6LK
Communications Trailer - Larry Loomer, KI6LNB
Communications Van - MDARC - 1 Jim Tittle, K6SOE
Digital Media - Mike Patterson, N6JGA
Education & Training - John Primus, AF6RJ
Field Day - Larry Loomer, KI6LNB
Good & Welfare Coordinator - Diana Sage, KA6TZU
Holiday Dinner Coordinator - Misa Siemons, KJ6BUE
License Testing - Larry Loomer, KI6LNB
Outreach Coordinator - Dick Wade, WM6G
Public Service Coordinator - Klaus Berkner, K6KHB
Refreshments Coordinator: Elizabeth Styles, KG6HLV
Repeater Trustee W6LGW - Dick Brown, KT6X
Repeater Trustee W6CX - Jay Caldis, KT6Y
Technical Committee Chair - Jim Siemons, W6LK

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Amateur Television Help and Information:
Fred Coe, WB6ASU wb6asu@icloud.com

President's Message

June 2019

MDARC Family,

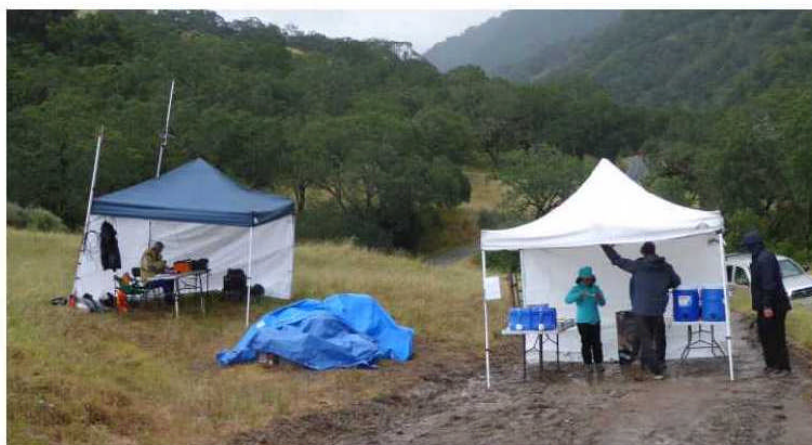
Hard to believe that June is here and summer weather is just around the corner.

Unless you consider "liquid sunshine" as summer's "blissful weather," then these club members did not experience any of that warm, dry weather while volunteering at the Ohlone 50K Trail Run on May 19th. Not only did the pre-event rain result in cancellation of the 31-mile point-to-point course which required a last minute rerouting of the course. With that route change came a concurrent change in the Comm Plan and David McBrayer N6OJJ with the Hayward Radio Club (HRC) did a maderful job in accomplishing that rapid change.



Creek	0.88	Go. Ave.	str
		Greg Miller	WY6P
		✓ John Rabold	KS6M
Backpack 1	13.44	1000-1830	David Harding
		✓ Larry Bradley	WB7WBB
			✓ KK6QPE
Sunol 2	15.00	0745-1900	Larry Loomer
			KI6LNB
			Terry Buxton

Anybody up for rain, muddy shoes, unlevel operating area? All in all, your typical sloppy operating conditions. Gee, can John Rabold KS6M and I truly say we were working with strictly vertical polarization? But we rolled with the conditions and successfully accounted for all the runners who passed through this aid station. We learner some lessons and I for one came away with a new project.



What no donuts! Recognize folks in this picture? These are the VEs who gave of their time to be on hand to grade the licensing tests for 21 eager examinees. This was at the 06/06/19 testing

session that came at the conclusion of the 9-week MDARC/TLC General Class Licensing Course held at Trinity Lutheran Church in Walnut Creek.



And of course here are those eager examinees. You can check with John Primus, AF6RJ or Larry Loomer, KI6LNB for the final results tally, but I heard that there quite a few who got their first ticket and those who upgraded. We even had a grand slam with Tech through Extra. Congratulations Taylor Van Fleet!

Educational at MDARC does not lay back for the summer, so take advantage of these Thursday evening classes. Check out the website for all the details and if you plan to attend, please sign up.



Emergency Communications Readiness, with Bill Shaffer, N6SGT on Thursday June 20, 2019
Emergency Communications FLDIGI, with Klaus Berkner, K6KHB on Thursday June 27, 2019
Introduction to DX, with Dave Piersall, N6ORB-08/01/2019 on Thursday August 1, 2019
Portable Operations, with Dave Piersall, N6ORB on Thursday, August 8, 2019

I don't know if this mother racoon and her two kits were at Field Day last year but bet they may have left my backyard and headed over to Heather Farm to pay a visit. What about you? Will you be stopping by Heather Farm on June 22 and 23? I sure hope so. Come and set up your rig or just come to say "hello" and see what's going on. Bring yourself, a family member and drag along a friend to see what this hobby is all about. Or at least see what some of it is all about.



Before I go, let me remind you to sign up for Pacificon [10/18-20]: Pacificon.org

"The greatest motivational act one person can do for another is to listen." Roy E. Moody

73 Larry Bradley KK6QPE
06/07/19

What is Field Day?

Field Day is a ham radio picnic, a campout, a practice for emergencies, an informal contest and, most of all, FUN! The American Radio Relay League (ARRL) Field Day is the single most popular on-the-air event held annually in the US and Canada. On the fourth weekend of June of each year, more than 35,000 radio amateurs gather with their clubs, groups or simply with friends to operate from remote locations.

It is a time when many aspects of Amateur Radio come together to highlight our many roles. While some will treat it as a contest, other groups will use the opportunity to practice their emergency response capabilities. It is an excellent opportunity to demonstrate Amateur Radio to the organizations that Amateur Radio might serve in an emergency, as well as to the general public. For many clubs, ARRL Field Day is one of the highlights of their annual calendar.

The Mount Diablo Amateur Radio Club Field Day activity will be located at Heather Farm Park at 301 North San Carlos Drive (at Ygnacio Valley Road) in Walnut Creek, on Saturday, June 22, beginning at 11:00 AM, to Sunday, June 23, ending at 11:00 AM.

The contest part simply involves contacting as many other stations as possible while learning to operate our radio gear in abnormal situations and in less than optimal conditions.

We use these same skills when we help with public events such as marathons and bike-a-thons; fund-raisers such as walk-a-thons; celebrations such as parades; and exhibits at fairs, malls and museums. These are all large, preplanned, non-emergency activities.

But, despite the development of very complex, modern communications systems—or maybe because they ARE so complex—ham radio has been called into action again and again to provide communications in crises when communication really matters. Amateur Radio operators (also called “hams”) are well known for our communications support in real disaster and in post-disaster situations.

For further information, contact Larry Loomer at larylloomer@yahoo.com.

There will be a BBQ dinner on Saturday June 22 during Field Day weekend. Reservations will need to be made for the BBQ dinner so that the correct amount of food can be purchased. If you would like to attend the Field Day BBQ dinner, please RSVP to Larry Loomer at [<larylloomer@yahoo.com>](mailto:larylloomer@yahoo.com) on or before Wednesday, June 19, to make a reservation.

VOLUNTEERS NEEDED FOR MDARC FIELD DAY ACTIVITIES JUNE 22-23 2019

Multiple volunteers are needed to supervise the food availability at the Field Day site.

There will be a public service antenna display. We need a ham for this display.

Visitors will be able to write their names in Morse Code and then tap the code using a code key. We need someone to supervise this activity.

For Getting on the Air, a call to another ham can be made on the radio. We need two hams to supervise this activity.

License testing will be available at 1:00PM on Saturday. We need two more VEs to assist in this activity.

A mobile (car mounted) solar power system will be demonstrated. Larry, KI6LNB, has volunteered to do this demonstration.

A live demonstration of digital radio operations will be available. Mike Warren, W6MEW, has volunteered to do this demonstration.

A demonstration of solar charging of the trailer battery will be provided. This will be a part of the MDARC Trailer setup. We need a ham for this assignment.

An auxiliary generator demonstration for powering the trailer will be provided. Larry, KI6LNB, will be doing this demonstration.

MDARC's Digital Amateur Television (DATV) Repeater Group will be providing a demonstration of DATV in action. DATV repeater users are needed for this activity.

The newly renovated MDARC Trailer will be in action for all to see. Mike, W6MEW, will be demonstrating the trailer's capabilities.

We will be keeping a "Visitors Log" to count the number of visitors that we have on the site. We need a person to manage the Visitors' Log.

We will be setting up a Public Information Table for making contact with the visitors. This could be the Visitors' Log person.

Hams will be demonstrating the operation of their own radios and antennas.

Having a Safety Officer will get more points for our club. A person is needed to perform this role.

Multiple volunteers are needed to set up and take down tables, pop-ups and the big tent.

2019 Club Field Day Plans

The MDARC Field Day 2019 will be held at Heather Farm Park in Walnut Creek, CA., on June 22 and 23, 2019.

Ham radio clubs and groups nationwide will be getting on the air to make as many contacts as possible. If you have a Technician license, or even no license, you can work the HF bands under the supervision of a "control operator", a person who will help you get on the air and make long distance contacts that will be used in our club's point accumulation for Field Day.

Again this year, we have made contact with the Parks and Recreation Department of Walnut Creek, arranging for the use of the parking lot between Ygnacio Valley Road and Ball Field 1 as our Field Day site. We will be using the toilets in the building adjacent to our Field Day site. We hope that this very visible location will give us great contact with the public. At the Field Day site, overnight RV and motor home parking is permitted.

The MDARC Trailer will be delivered on Friday afternoon. The MDARC Van will be delivered to the site and set up as a contesting location. The van has been outfitted with radio gear for Field Day.

The solar trailer of Charles Henry, KG6PHZ, will be located in a featured spot in the site.

On Saturday morning, juice, coffee and pastries will be provided for the early morning workers.

At 1100 hours, the Field Day formal activity will begin.

License testing will be held at 1300 hours, providing testing for all three license levels.

We hope for a visit from Jim Siemons, W6LK, our ARRL Section Manager, and from other members of our served agencies.

There will be a show-and-tell class in the parking lot area.

There will be a BBQ on Saturday evening.

We plan to continue operating into the night.

On Sunday morning, juice, coffee and pastries will be provided for the early morning attendees.

At 1100 hours on Sunday, the Field Day activity will be over. All of the ham equipment will be packed up, coiled up, taken apart and stored away for the MDARC Field Day, 2020. The MDARC trailer and the MDARC Van will be returned to their respective resting places.

We hope to see all of our members and their guests, and hams from other clubs, at our Field Day 2019 site at Heather Farm Park.

ARRL Field Day 2019

June 22, 2019 11:00AM Pacific Time through June 23, 2019, 10:59AM Pacific Time

(1800 UTC Saturday to 1759 UTC Sunday)

ARRL Field Day is one of the biggest events in North American amateur radio. It runs around the clock from start to finish on the fourth weekend of June every year. More than 35,000 radio amateurs gather with their clubs, groups and friends to operate from remote locations. This year Field Day happens on June 22 and 23, 2019.

The objective of ARRL Field Day is:

“To work as many stations as possible on any and all amateur bands (excluding the 60, 30, 17, and 12-meter bands) and to learn to operate in abnormal situations in less than optimal conditions. Field Day is open to all amateurs in the areas covered by the ARRL/RAC Field Organizations and countries within IARU Region 2. DX stations residing in other regions may be contacted for credit, but are not eligible to submit entries.”

MDARC's Field Day site will be at the Heather Farm Park on Ygnacio Valley Road at North San Carlos Drive in Walnut Creek.

Our Field Day chair, Larry Loomer, KI6LNB, and his crew will start setting up on Friday afternoon before the event, so come on down and help out, stay to work some bands and generally have a good time. Bring your RV, trailer camper or sleep in your car and stay overnight. Basic food and drink will be provided. We will have available the nearby rest rooms. If needed, a shopping center with restaurants is across the street.

Remember: You don't need to have HF privileges, or even be a ham, to make contacts at our Field Day site. We will have licensed Band Captains on hand to act as control operators. So come on down and get involved in ham radio!

See the the ARRL Field Day web page <http://www.arrl.org/field-day> for more information.

Bands MDARC Will Utilize:

2 Meters (144.100 MHz – 148.000 MHz)

15 Meters (21.000 MHz - 21.450 MHz)

40 Meters (7.000 MHz – 7.300 MHz)

10 Meters (28.000 MHz – 29.700 MHz)

20 Meters (14.000 MHz – 14.350 MHz)

80 Meters (3.500 MHz – 4.000 MHz)

Larry, KI6LNB, will be broadcasting hourly reports about which frequencies are being operated on at the MDARC Field Day site, on the W6CX repeater, 147.060 MHz. + offset, 100.0 PL. Listen in on the above bands to hear MDARC in action and get a contact.

Visit and and work the bands with us.

— Larry Loomer, KI6LNB, Field Day Chair



JUNE 22-23 2019

HEATHER FARM PARK

WALNUT CREEK

Mt. Diablo Amateur Radio Club Field Day 2019

Ham radio clubs and groups nationwide will be getting on the air to make as many contacts as possible. You can make a call to another ham on the radio, or talk by radio to your friend across the parking lot. Live pictures can be viewed on the Amateur Television screen in the Communication Van. A mobile (car mounted) solar power system will be demonstrated. A live demonstration of Digital Radio Contacting will be available. A demonstration of solar charging of the trailer battery will be provided. Hams will be demonstrating the operation of their own radios and antennas. Festivities start at 11:00 a.m. Saturday June 22nd and conclude at 11:00 a.m. Sunday June 23rd. We will be situated in a very visible location between Ygnacio Valley Road and Ball Field 1. Restroom facilities will be available in the building adjacent to the Field Day site and overnight RV parking will be permitted.



MDARC Field Day

2019

**MDARC mobile
solar trailer will
be on display with
capacity to power
the entire site**

**License testing
available @ 1:00
pm June 22nd**

**See Ham radios in
action with live
demonstrations**

**Write your name
in Morse code and
tap the code
using a code key**

MDARC BOARD OF DIRECTORS MEETING May 6, 2019

Black Bear Diner, Walnut Creek, CA

Attendees: Larry Bradley KK6QPE, Larry Loomer KI6LNB, Cathi Walton K2CJW, Ron Bunch W4FEK, Trevor Hall WA6JAU, David Piersall N6ORB, Mike Warren W6MEW, John Primus AF6RJ, Mike Patterson N6JGA, Eric Ferguson KA6USJ, Cal Vasquez K6VT, Jim Siemons W6LK, Misa Siemons KJ6BUE, and Marilyn Warren W6MEW-YL.

The vice president was not present.

The President passed out the agenda and the previous meeting's minutes.

7:00 The meeting was called to order by President Larry Bradley. Introductions were made around the table. Minutes of the last meeting were approved without comment. The agenda was reviewed.

President: No report.

Secretary: No Report.

Treasurer: The additions to the budget report for May, and the present status of the treasury, were reviewed. The auction profit has been calculated. Our storage locker and van parking pad prices for each have gone up approximately 10%.

Education: The General class is continuing, with a total enrollment of 27. The average class attendance is 18 students. The average Elmer attendance is 12 Elmers. The August Technician class enrollment is 2 students.

Emergency Communications: No report.

Pacificon: The Pacificon website has been launched. There will be a Pacificon Committee meeting at the Trinity Lutheran Church on May 13. Money is coming in from the vendors for booth rental.

7:15: Digital: The websites are working well. The chairman will take down the old Yahoo Groups site. The Secretary will keep the master copy of the official documents. The envelope containing the passwords for the club's sites was given to the President.

7:36: Outreach: The Cowell - Crossings Safety Fair was a success. Both the MDARC Van and the MDARC trailer were present. There was a good turnout from the club.

Technical: The South Peak router still has problems. Otherwise, all systems are OK.

Auction: The auction had 127 items for sale. 103 were sold. The auction concluded at 9:15 PM, two hours sooner than last year.

Vehicle: The van was taken to the Cowell - Crossings event. The van is becoming more roadworthy with each visit that it makes. The solar panel keeps the engine battery charged.

Trailer: A Yaesu FT-847 radio was transferred from the van to the trailer. The trailer was also at the Cowell - Crossings event. A copy of the current trailer registration will be forwarded to the Trailer Committee for posting in the trailer. This copy has the club P.O.Box number as the registered address for the trailer.

Field Day: The MDARC three-fold brochure to be passed out from the trailer, was given to the Outreach Committee for printing. A Field Day Committee meeting is scheduled for Friday, May 17, at the membership meeting, beginning at 7:00.

8:01: License Testing: No report.

Public Service: The Concord Mt. Diablo Trail Ride Association ride on May 4 went well, especially for the jeep club that participated as hams/transporters.

Membership: No report.

Unfinished Business:

1. Repeater Rebuilding Project: There have been no official requests for funding. The Outreach Committee has created a press release, advertising the availability of the funding. The press release was reworked by the board. The committee will resend the reworked release to the board.
2. Membership Survey: The President's comments will be incorporated in the survey. The survey will be sent to the board for approval. The survey will go into the June *Carrier*. The survey participants will respond by email to the Secretary. The Technical Committee Chairman will discuss with the Secretary about using Constant Contact to consolidate the comments.
3. The Repeater Operating Policy discussion will be put off until next month.
4. The club should no longer pursue working with Mobility Matters.
5. The trailer use/safety policy should be sent to the MDARC Van Committee chairman.
6. The Vice President will shrink the van waiver down to a driver certification. He will also shrink the trailer use wording down to make it simpler.
- 7 The President will meet with the Membership Coordinator to discuss how the Board can help to take on some of the workload.

8:39 8. The President would like to bring a make-it class to MDARC, similar to a class being developed by the Marin Amateur Radio Society.

9. The Technical Committee Chairman will be getting some racks to tidy up the Rodie's storage locker.

8:56 The meeting was adjourned.

Respectfully submitted,

Larry Loomer, KI6LNB, MDARC Secretary.

MDARC GENERAL MEMBERSHIP MEETING

Our Savior's Lutheran Church, Lafayette, CA May 17, 2019

7:30: The meeting was called to order by President Larry Bradley, KK6QPE. New members were welcomed. New licensees were acknowledged. The location of the restrooms and exits was pointed out. The Pledge of Allegiance was recited by the membership, under the leadership of Eric, KA6USJ. There were no revisions to the meeting minutes from the March meeting.

The president had no report.

The vice president reported that the Martinez ARC is going for more hams in the CERT Group.

The secretary had no report.

The treasurer reported on the usual large balances. The total asset figures were presented to the membership.

Auction Committee: The chairman announced that the MDARC Auction was well received. Approximately \$2800 of merchandise was sold. The Club preliminary profit figure is \$1550.

Tech Committee: There have been intrusion attempts into the network on South Peak. This causes the system to lock up. The system resets itself at night. On North Peak, the DATV equipment is being worked on. All systems are go. Reminder: Monthly meetings are held at the Thurmond G. Casey Library in Walnut Creek at 8:00 AM on the first Saturday.

Outreach: Concerning the Disaster Recovery Program, press releases have been sent out to newspapers.

Education: Two General classes remain, then there will be license testing, then GOTA-HF. Auxiliary radio training classes are available after the GOTA class. Persons may sign up for the classes on the MDARC website.

Emergency Communications: No report.

Pacificon: Will be on October 18-20, 2019, at the San Ramon Marriott Hotel. There will be a digital track on Sunday. Staff shirts are \$35. On line registration is \$25, \$30 at the door.

License Testing: There were 2 new Technicians, one new General, and two new Extras tonight.

Trailer Committee: The trailer participated in a neighborhood safety fair in the Crossings Neighborhood in Concord.

Field Day Committee: A meeting was held before the membership meeting. The committee got organized for the Field Day event on June 22 - 23.

Van Committee: MDARC-1 has a full tank of gas.

No old business. No new business. No pie. Two books were to be raffled off.

7:58: The meeting was adjourned.

Respectfully submitted, Larry Loomer, MDARC Secretary

2019 Ham Radio Auxiliary Classes Registration Available Now online!

Mt. Diablo Amateur Radio Club

Location: Trinity Lutheran Church, 2317 Buena Vista Ave.

Walnut Creek, CA 94597 – **All Auxiliary Classes start at 7:00 pm**

Registration online is required

Emergency Communications Readiness, with Bill Shaffer, N6SGT
Thursday June 20, 2019

Emergency Communications FLDIGI, with Klaus Berkner, K6KHB
Thursday June 27, 2019

Introduction to DX, with Dave Piersall, N6ORB-08/01/2019
Thursday August 1, 2019

Portable Operations, with Dave Piersall, N6ORB
Thursday, August 8, 2019

To see the MDARC Schedule including the
Next Technician license Class for your friends -Starting Aug. 15 - Oct 3, 2019

Go To: <http://www.mdarc.org/activities/education/Classes>

For NON-License Auxiliary class questions email: info@mdarc.org

For the Technician Class questions email: HamRadioClass@gmail.com

**Your registration is not complete until payment is received on the
MDARC registration page.**



ARRL The national association for
AMATEUR RADIO

2019 Ham Radio Licensing Course Registration Available Now!

Mt. Diablo Amateur Radio Club

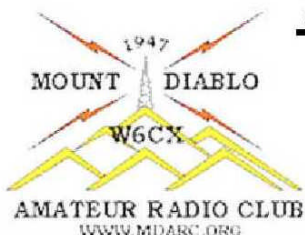
will be holding an 8 week course where you can learn everything you need to earn your 1st level Technician Class

The Technician Class license is your entry to the world-wide excitement of Amateur Radio and Emergency Communications... and now you do

NOT need to learn Morse code!

The last **Technician** Class for 2019 begins on...

Thursday August 15, 2019



ARRL The national association for
AMATEUR RADIO

First Class starts at 6:30 the rest are from 7-9pm

Trinity Lutheran Church, 2317 Buena Vista Ave.

Walnut Creek, CA 94597

Registration **online** is required. We use the current ARRL Textbooks – Text book details are part of the registration process. Follow up training and License testing will also be available.

Complete class calendar and registration link:

<http://www.mdarc.org/activities/education/Classes>

(If you are new to Ham Radio it is suggested you wait to buy your radio until after you take the TECH license class as some CHEAP radios advertised as Ham radios are out of compliance with FCC rules.)

The auto response at **HamRadioClass@gmail.com** will answer more class questions. If you have Non License questions email: **info@mdarc.org**

Morse code is **NOT** required for an Amateur Radio License.



Nevada State Amateur Radio Convention

NVCON

RENO-TAHOE 2019

July 19 - 20, 2019

Boomtown Casino Hotel • Reno, NV

● **Friday Amateur Radio Academy**

In-depth Classes / Workshops

● **One Day Tech Class**

Get Your Amateur Radio License in a Day

● **Amateur Radio Forums**

Presentations on Amateur Radio Related Topics

● **Exhibitors & Vendors**

Popular Amateur Radio Vendors and Exhibitors

● **Saturday Ham Swap**

Sell, Buy, Trade starting at 6am

● **Radio Exams**

Tech, General & Extra Exams

● **Raffle Prizes**

Amateur Radio Raffle Prizes

● **and more**

visit <http://nvcon.org> for more info

<http://nvcon.org>

HAM RADIO OUTLET

14 STORE BUYING POWER!

ICOM



IC-7600 | All Mode Transceiver

- 100W HF/6m Transceiver, gen cov. receiver • Dual DSP 32 bit • Three roofing filters- 3, 6, 15kHz • 5.8 in WQVGA TFT display • Hi-res real time spectrum scope



IC-7200 | HF Transceiver

- 160-10M • 100W • Simple & tough with IF DSP • AGC Loop Management • Digital IF Filter • Digital Twin PBT • Digital Noise Reduction • Digital Noise Blanker • USB Port for PC Control



IC-7100 | All Mode Transceiver

- HF/50/144/430/440 MHz Multi-band, Multi-mode, IF DSP • D-STAR DV Mode (Digital Voice + Data) • Intuitive Touch Screen Interface • Built-in RTTY Functions



ID-5100A | VHF/UHF Dual Band Digital Transceiver

- Analog FM/D-Star DV Mode • SD Card Slot for Voice & Data Storage • 50W Output on VHF/UHF Bands • Integrated GPS Receiver • AM Airband Dualwatch • FM Analog/DV Repeater List Function

ID-51A | VHF/UHF Dual Band Transceiver

- 5/2.5/1.0/0.5/0.1W Output • RX: 0.52-1.71, 88-174, 380-479 MHz** • AM/FM/FM-N/WFM/DV • 1304 Alphanumeric Memory Chls • Integrated GPS • D-STAR Repeater Directory • IPX7 Submersible



KENWOOD



TS-590SG | HF/50MHz Transceiver

- Equipped with 500 Hz/2.7 kHz roofing filter as standard • ALC derived from TS-990S eliminating spike issues • Antenna output function (shared with DRV connector) • CW - morse code decoder function



TM-D710G | 2M/440 Dualband

- V-V/V+U/U+U operation • Built-in GPS • Built-in TNC for APRS & DX-Cluster operation • 50W 2M & UHF • 1,000 memories • Dual receive • Green or amber backlight colors • Latest APRS firmware w/new features • Sky Command II remote functions



TM-V71A | 2M/440 DualBand

- High RF output (50W) • Multiple Scan • Dual receive on same band (VxV, UxU) • Echolink® memory (auto dialer) • Echolink® Sysop mode for node terminal ops • Invertible front panel • Choice of green/amber for LCD panel • 104 code digital code squelch



TM-281A | 2 Mtr Mobile

- 65 Watt • 200 Memories • CTCSS/DCS • Mil-Std specs • Hi-quality audio

TH-F6A | 2M/220/440

- Dual channel receive • .1 - 1300 MHz (cell blocked) RX • FM, AM, SSB • 5W 2M/220/440 TX, FM • 435 Memories • Li-Ion Battery



YAESU
The radio



FT-991 | HF/50MHz/2M/440 Transceiver

- 160 M-440MHz - SSB/CW/FM/C4FM Digital/AM/RTTY/PSK • 100 W (2M/440: 50 Watts) • 3.5" TFT full-color touch panel operation • High speed spectrum scope • Roofing filters: 3kHz & 15kHz • 32-bit high speed floating point IF DSP



FTDX1200 | 100W HF + 6M Transceiver

- Triple Conversion Receiver With 32-bit Floating Point DSP • 40 MHz 1st IF with selectable 3 kHz, 6kHz & 15 kHz Roofing Filters • Optional FFT-1 Supports AF-FFT Scope, RTTY/PSK31 Encode/Decode, CW Decode/Auto Zero-In • Full Color 4.3" TFT Display



FT-450D | A100W HF + 6M Transceiver

- 100W HF/6M • Auto tuner built-in • DSP built-in • 500 memories • DNR, IF Notch, IF Shift



FTM-400DR | 2M/440 Mobile

- Color display-green, blue, orange, purple, gray • GPS/APRS • Packet 1200/9600 bd ready • Spectrum scope • Bluetooth • MicroSD slot • 500 memory per band

FT-60R | 2M/440 5W HT

- Wide receiver coverage • AM air band receive • 1000 memory channels w/alpha labels • Huge LCD display • Rugged die-cast, water resistant case • NOAA severe weather alert with alert scan



5 Ways to Shop!

- RETAIL LOCATIONS - Store hours 10:00AM - 5:30PM - Closed Sunday
- PHONE - Toll-free phone hours 9:30AM - 5:30PM
- FAX - All store locations
- ONLINE - WWW.HAMRADIO.COM
- MAIL - All store locations

ANAHEIM, CA
(800) 854-6046

OAKLAND, CA
(877) 892-1745

BURBANK, CA
(877) 892-1748

SAN DIEGO, CA
(877) 520-9623

NEW CASTLE, DE
(800) 644-4476

PORTLAND, OR
(800) 765-4267

DENVER, CO
(800) 444-9476

PHOENIX, AZ
(800) 559-7388

ATLANTA, GA
(800) 444-7927

WOODBIDGE, VA
(800) 444-4799

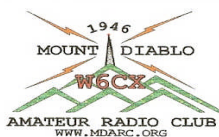
SALEM, NH
(800) 444-0047

PLANO, TX
(877) 455-8750

ONLINE STORE
WWW.HAMRADIO.COM

New Store!

Contact HRO for promotion details. Toll-free including Hawaii, Alaska and Canada. Call will be routed to the nearest store. All HRO 800-lines can assist you. If the first line you call is busy, you may call another. AZ, CA, CO, GA, VA residents add sales tax. Prices, specifications and descriptions subject to change without notice.



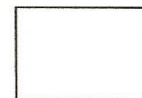
The Carrier

Newsletter of the Mt. Diablo Amateur Radio Club

P.O. Box 23222

Pleasant Hill, CA 94523

www.mdarc.org



**THIS
MONTH !**



FIRST CLASS

<https://www.facebook.com/mdarc.org>

W6CX Nets

M-F 5:42 am Morning Muster 147.060+ 224.780- 441.325+

M-F 6:10am Commuter Net 147.060+ 224.780- 441.325+

Monday 8:00 pm SATERN Net 147.060+

Tuesday 7:30 pm Fat City 10 meter USB/CW Net 28.420 MHz

Tuesday 8:00pm Digital Practice Net 147.060+ 224.781- 441.325+

Wednesday 7:00 pm SKYWARN Net 147.060+

Thursday 7:30 pm MDARC Club Net 147.060+

Thursday 8:00 pm Amateur Television Net 147.060+

FM 147.060 MHz + / PL 100Hz -

224.780 MHz - / PL 77Hz 441.325 MHz + / PL 100Hz

EchoLink: W6CX-R /133896, IRLP: 3057

<https://www.broadcastify.com/listen/feed/25334>

D-STAR 145.000 offset plus 2.5 MHz

<https://w6cx.dstargateway.org/>

ATV Internet Stream: <http://w6cxatv.mdarc.org/>

Contra Costa County Emergency Communications Nets

Every Thursday

<http://www.coco-races.org/meetings/nets/>

6:35 pm HF Countywide 3.893 MHz LSB

6:45 pm West County 145.110-- (82.5 PL)

7:00 pm Central County 145.680 Simplex

7:00 pm East County 146.535 Simplex

7:00 pm South County 147.480 Simplex

7:20 pm Countywide 145.490-- (107.2 PL)

or 147.735-- (107.2 PL)

or 145.410-- (107.2 PL)

Concord Auxiliary Radio Emergency Service (CARES)

Wednesday 8:00pm 147.405 Simplex

Digital Amateur Television Repeater

Digital ATV Output: 1244.500

Digital ATV Inputs: 1292.500, 1273.0, 917.0, 430.0

Analog ATV Input: 1270.000 FM (PL 192.8)

June and July 2019 Club Calendar

Friday June 21, 2019	7:30pm	MDARC General Meeting - Our Savior's Lutheran Church 1035 Carol Lane, Lafayette
Saturday & Sunday June 22-23, 2019		ARRL FIELD DAY- Heather Farm Park SEE INSIDE FOR DETAILS 301 North San Carlos Dr (at Ygnacio Valley Road) Walnut Creek
Monday July 1, 2019	7:00pm	MDARC Board of Directors Meeting - Black Bear Diner 700 Bancroft Road, Countrywood Shopping Center, Walnut Creek
Friday July 19, 2019	6:00pm	MDARC General Meeting - Our Savior's Lutheran Church 1035 Carol Lane, Lafayette